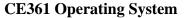


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Practical 1

Aim: Introduction to OS and shell.

- 1. Access the command Line
- 2. Manage files and directories from command line
- 3. Create, edit and and view text files

Commands for reference:

Directory: mkdir, rmdir, cd, pwd, ls, mv

Editor: vi, gedit

File Handling/Text: cp, mv, rm, sort, cat, file, less, more, cmp, diff, comm, head, tail, cut,

grep, touch, tr, uniq

Self-Study:

User Access: login, logout, passwd, exit

Information: man, who, date, cal, tty, calendar, time, bc, who, whoami, which, hostname,

history, wc, finger, uname

Help: man, help

Terminal: echo, clear

Exercise - 0

Enter these commands at the UNIX prompt, and try to interpret the output.

Que.	1. Passwd
Command	1.passwd
Output	<pre>ubuntu@ubuntu:~\$ passwd New password:</pre>

Que.	2. Date
	3. Hostname
	4. Arch
	5. uname –a
Command	2. date

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```
3. hostname
4. arch
5. uname —a

Output

buntu@ubuntu:~$ date
'hu Jul 11 14:39:43 IST 2024
buntu@ubuntu:~$ hostname
buntu
buntu@ubuntu:~$ arch
'86_64
buntu@ubuntu:~$ uname -a
inux ubuntu 6.8.0-31-generic #31-Ubuntu SMP PREEMPT_DYNAMIC Sat Apr 20 00:40:06
UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
```

```
Que.
               6. whoami
               7. who
               8. id
               9. echo $SHELL
               10. echo {con,pre} {sent,fer} {s,ed}
Command
               6. whoami
               7. who
               8. id
               9. echo $SHELL
               10. echo {con,pre} {sent,fer} {s,ed}
               ubuntu@ubuntu:~$ whoami
  Output
               ubuntu
               ubuntu@ubuntu:~$ who
               ubuntu seat0
                                   2024-06-27 15:41 (login screen)
               ubuntu :0
                                   2024-06-27 15:41 (:0)
               ubuntu@ubuntu:~$ id
               uid=1000(ubuntu) gid=1000(ubuntu) groups=1000(ubuntu),4(adm),24(cdrom),27(sudo)
               30(dip),46(plugdev),100(users),114(lpadmin),124(sambashare)
               ubuntu@ubuntu:~$ echo $SHELL
               /bin/bash
               ubuntu@ubuntu:~$ echo {con,pre}{sent,fer}{s,ed}
               consents consented confers confered presents presented prefers prefered
```

Que.	11. man ls
	12. man who
Command	11. man ls
	12. man who

```
LS(1)
Output
                                               User Commands
                                                                                       LS(1)
              NAME
                     ls - list directory contents
              SYNOPSIS
                     ls [OPTION]... [FILE]...
              DESCRIPTION
                     List information about the FILEs (the current directory by default).
                     Sort entries alphabetically if none of -cftuvSUX nor --sort is speci-
                     fied.
                     Mandatory arguments to long options are mandatory for short options
                     too.
                     -a, --all
                            do not ignore entries starting with .
                     -A, --almost-all
                            do not list implied . and ..
                     --author
               Manual page ls(1) line 1 (press h for help or q to quit)
              <u>WHO</u>(1)
                                               User Commands
                                                                                       WHO(1)
              NAME
                     who - show who is logged on
              SYNOPSIS
                     who [OPTION]... [ FILE | ARG1 ARG2 ]
              DESCRIPTION
                     Print information about users who are currently logged in.
                     -a, --all
                            same as -b -d --login -p -r -t -T -u
                     -b, --boot
                            time of last system boot
                     -d, --dead
                            print dead processes
                      -H, --heading
                            print line of column headings
               Manual page who(1) line 1 (press h for help or q to quit)
```

Que.	13. who can tell me why I got divorced
	14. clear
Command	13. who can tell me why I got divorced
	14. clear
Output	<pre>ubuntu@ubuntu:~\$ who can tell me why i got divorced who: extra operand 'me' Try 'whohelp' for more information.</pre>

Que.	15. cal 2000
Command	15. sudo apt install neal

```
cal 2000
             ubuntu@ubuntu:~$ cal 2000
Output
                                        2000
                                        February
                   January
                                                               March
             Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
                                         1
                                            2
                                               3
                                                    5
                                                                  1
                                                                    2
                               1
                                                              7 8 9 10 11
                3 4 5 6
                           7
                              8
                                   6
                                        8 9 10 11 12
                                                         5 6
              2
              9 10 11 12 13 14 15
                                  13 14 15 16 17 18 19 12 13 14 15 16 17 18
             16 17 18 19 20 21 22
                                  20 21 22 23 24 25 26
                                                       19 20 21 22 23 24 25
             23 24 25 26 27 28 29
                                  27 28 29
                                                        26 27 28 29 30 31
             30 31
                   April
                                          May
                                                                June
             Su Mo Tu We Th Fr Sa
                                  Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
                                           3 4 5 6
                                         2
                               1
             2 3 4 5 6 7 8
                                      8
                                        9 10 11 12 13
                                                         4 5 6
                                                                 7 8 9 10
             9 10 11 12 13 14 15
                                  14 15 16 17 18 19 20
                                                       11 12 13 14 15 16 17
                                  21 22 23 24 25 26 27
             16 17 18 19 20 21 22
                                                        18 19 20 21 22 23 24
             23 24 25 26 27 28 29
                                  28 29 30 31
                                                        25 26 27 28 29 30
             30
                    July
                                                           September
                                        August
            Su Mo Tu We Th Fr Sa
                                 Su Mo Tu We Th Fr Sa
                                                      Su Mo Tu We Th Fr Sa
                                             3 4 5
                              1
                              8
                                  6
                                        8
                                          9 10 11 12
                                                                        9
                        6
                                                       3 4
                                                               6
                                                                     8
             9 10 11 12 13 14 15
                                 13 14 15 16 17 18 19
                                                      10 11 12 13 14 15 16
            16 17 18 19 20 21 22
                                 20 21 22 23 24 25 26
                                                      17 18 19 20 21 22 23
            23 24 25 26 27 28 29
                                 27 28 29 30 31
                                                       24 25 26 27 28 29 30
            30 31
                  October 0
                                       November
                                                            December
            Su Mo Tu We Th Fr Sa
                                 Su Mo Tu We Th Fr Sa
                                                      Su Mo Tu We Th Fr Sa
                  3 4 5
                          6 7
                                 5 6 7 8 9 10 11
                                                                     8 9
              9 10 11 12 13 14
                                                       3 4 5 6 7
             8
                                 12 13 14 15 16 17 18
            15
              16 17 18 19 20 21
                                                      10 11 12 13 14 15 16
            22 23 24 25 26 27 28
                                 19 20 21 22 23 24 25
                                                       17 18 19 20 21 22
            29 30 31
                                 26 27 28 29 30
                                                       24 25 26 27 28 29 30
```

```
16. cal 9 1752
   Que.
                17. bc -l
               18. echo 5+4 | bc –1
               16. cal 9 1752
Command
               17. bc -1
                18. echo 5+4 | bc –1
                ubuntu@ubuntu:~$ cal 9 1752
  Output
                   September 1752
                Su Mo Tu We Th Fr Sa
                      1 2 14 15 16
                17 18 19 20 21 22 23
                24 25 26 27 28 29 30
                ubuntu@ubuntu:~$ bc -l
                bc 1.07.1
                Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free Software
                Foundation, Inc.
                This is free software with ABSOLUTELY NO WARRANTY.
                 or details type `warranty'.
                ubuntu@ubuntu:~$ echo 5+4 | bc -l
```

```
19. yes please
  Que.
           20. time sleep 5
           19. yes please
Command
           20. time sleep 5
 Output
            please
            please
            please
            please
            please
            please
            please
            please
            pleas^C
            ubuntu@ubuntu:~$ time sleep 5
                     0m6.649s
            real
            user
                     0m0.008s
                     0m0.008s
            sys
```

```
Que.
                      21. history
Command
                       21. history
                               <mark>@ubuntu:</mark>~$ history
   Output
                               date
                               cd
date
                               passwd
date
                           6
7
8
9
                             hostname
                               arch
                               uname-a
whoami
who
                          11
12
13
14
15
16
17
18
19
20
21
22
23
                              echo $SHELL
echo {con,pre}{sent,fer}{s,ed}
man ls
                               man who
                              who can tell me why i got divorced cal 2000 cal 2024 cal 9 1752
                               bc -1
                               bc -l
                               echo 5+4 | bc -l
yes please
```

Exercise-1

Try the following command sequence.

Que.	1. Display username of current user.
	2. Display current working directory.
	3. Make a sub directory named CE in a directory named CSPIT.
	4. Create an empty file "ce1.txt" from command prompt.
Command	1. whoami
	2. pwd
	3. mkdir -p CSPIT/CE
	4. touch CSPIT/CE/ce1.txt
Output	<pre>ubuntu@ubuntu:~\$ whoami ubuntu@ubuntu:~\$ pwd /home/ubuntu ubuntu@ubuntu:~\$ mkdir -p CSPIT/CE ubuntu@ubuntu:~\$ touch CSPIT/CE/ce1.txt iles intu@ubuntu:~\$</pre>

Que.	5. Add the content from command prompt in "ce1.txt".
	6. Display the content of "cel.txt" file.
	7. Change working directory to CE.
	8. Make 5 empty files named file1.txt to file5.txt in same directory.
	9. List all the files in the directory CE.
	10. Add the Name, ID no, and address with pin code to "file1.txt".
	11. Copy contents of file1.txt to file2.txt.
	12. Rename file3.txt to "f3.txt".
	13. Display the number of lines, number of words, number of characters of
	"file1.txt".
Command	5. echo -e "Probin"
	6. cat file1.txt
	7. cd CSPIT/CE
	8. touch file{15}.txt
	9. ls
	10. echo -e "Name: Probin \nID: 22DCE006\nAddress: Changa">file1.txt
	11. cp file1.txt file2.txt

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```
12. mv file3.txt f3.txt

13. wc file1.txt

Output

ubuntu@ubuntu:~\spit/CE\stouch file\{1..5\}.txt

ubuntu@ubuntu:~\cspit/CE\stouch file\{1..5\}.txt

ubuntu@ubuntu:~\cspit/CE\stouch file\{1..5\}.txt

ubuntu@ubuntu:~\cspit/CE\stouch file\{1..5\}.txt

ubuntu@ubuntu:~\cspit/CE\stouch file\{1..5\}.txt

ubuntu@ubuntu:~\cspit/CE\stouch file\{1..5\}.txt

t

ubuntu@ubuntu:~\cspit/CE\stouch ce"Name:Probin\nID:22DCE006\nAddress:Changa">file1.tx

t

ubuntu@ubuntu:~\cspit/CE\stouch mv file\{3.\txt} file\{2.\txt}

ubuntu@ubuntu:~\cspit/CE\stouch mv file\{3.\txt}

ubuntu@ubuntu:~\cspit/CE\stouch mv file\{3.\txt}

1 1 43 file\{1.\txt}
```

```
14. Compare the files "file1.txt" to "file2.txt"
  Que.
            15. Update the content of "file2.txt". Add your skill to existing file.
            16. Compare the files "file1.txt" to "file2.txt"
            17. Report what is common in the above given files.
            14. diff file1.txt file2.txt
Comman
            15. echo "Skills : JAVA" >> file2.txt
    d
            16. diff file1.txt file2.txt
            17. comm -12 <(sort file1.txt) <(sort file2.txt)
            ubuntu@ubuntu:~/CSPIT/CE$ diff file1.txt file2.txt
 Output
            ubuntu@ubuntu:~/CSPIT/CE$ echo "Skills:JAVA">>file2.txt
            ubuntu@ubuntu:~/CSPIT/CE$ diff file1.txt file2.txt
            1a2
            > Skills:JAVA
            ubuntu@ubuntu:~/CSPIT/CE$ comm -12<(sort file1.txt)<(sort file2.txt>
                   syntax error near unexpected token `newline'
            op Center yntax error
            ubuntu@ubuntu:~/CSPIT/CE$ comm -12<(sort file1.txt)<(sort file2.txt)</pre>
            comm: invalid option -- '/'
            Try 'comm --help' for more information.
            ubuntu@ubuntu:~/CSPIT/CE$ comm -12<(sort file1.txt)<(sort file2.txt)</pre>
            comm: invalid option -- '/'
            Try 'comm --help' for more information.
            ubuntu@ubuntu:~/CSPIT/CE$ comm -12<(sort file1.txt) <(sort file2.txt)</pre>
            comm: invalid option -- '/'
            Try 'comm --help' for more information.
            ubuntu@ubuntu:~/CSPIT/CE$ comm -12 <(sort file1.txt) <(sort file2.txt)</pre>
            -eName:Probin\nID:22DCE006\nAddress:Changa
            ubuntu@ubuntu:~/CSPIT/CES
```

```
Que. 18. Add the content in "file4.txt" as given:
India
United States of America
```

Command
Output

Que.	19. Add the content in "file5.txt" as given:
	India
	Canada
	United Kingdom
	Australia
	Germany
	20. Find the difference between "file4.txt" and "file5.txt". How to make these
	files identical?
Comma	19. cat > file5.txt
nd	India
	Canada
	United Kingdom
	Australia
	Germany
	20. diff file4.txt file5.txt

```
Output
        ubuntu@ubuntu:~/CSPIT/CE$ echo -e"India
        > Canada
        > United Kingdom
        > Australia
        > Germany">file5.txt
        ubuntu@ubuntu:~/CSPIT/CE$ cat file5.txt
        -eIndia
        Canada
        United Kingdom
        Terminal 🕽
        Germany
        ubuntu@ubuntu:~/CSPIT/CE$ diff file4.txt file5.txt
        1,2c1,2
        < India
        < United States of America
        -eIndia
        > Canada
        4a5
        > Germany
        ubuntu@ubuntu:~/CSPIT/CE$
```

Que.	21. Create "file6.txt" by adding ten name of students.
	22. Create "file7.txt" by adding ten name of students.(few names should be
	common to
	"file6.txt")
Comma	21. echo -e "david raj prem josh raju shyam juhi hetvi aayush john
nd	">file6.txt
	cat file6.txt
	22.echo -e "raj prem josh raju shyam ranjesh ranjan diya deepika
	">file7.txt
	cat file7.txt

```
Output
           ubuntu@ubuntu:~/CSPIT/CE$ echo -e"david raj prem josh raju shyam juhi hetv
           ohn">file6.txt
           uhuntu@ubuntu:~/CSPIT/CE$ cat file6.txt
            Terminal aj prem josh raju shyam juhi hetvi aayush john
           ubuntu@ubuntu:~/CSPIT/CE$ echo -e"david raj prem josh raju shyam juhi kara
           alu">file6.txt
           ubuntu@ubuntu:~/CSPIT/CE$ cat file6.txt
           -edavid raj prem josh raju shyam juhi karan nityam lalu
           ubuntu@ubuntu:~/CSPIT/CE$ cat file6.txt
           -edavid raj prem josh raju shyam juhi rohan ram shyam
           ubuntu@ubuntu:~/CSPIT/CE$ echo -e"david raj prem josh raju shyam rajesh ra
           deepkia">file7.txt
           ubuntu@ubuntu:~/CSPIT/CE$ cat file7.txt
           -edavid raj prem josh raju shyam rajesh ranjan diya deepkia
           ubuntu@ubuntu:~/CSPIT/CES
```

```
23. Sort the content of "file6.txt" and "file7.txt"
  Que.
          24. Find the common and unique content in "file6.txt" and "file7.txt"
          25. Merge the content of above two files in "file8.txt"
          26. Remove the duplicate names from "file8.txt"
          23. sort file6.txt -o file6.txt
Comman
             sort file7.txt -o file7.txt
   d
          24. comm -12 file6.txt file7.txt
             comm -23 file6.txt file7.txt
             comm -13 file6.txt file7.txt
          25. cat file6.txt file7.txt > file8.txt
          26. sort -u file8.txt -o file8.txt
             cat file8.txt
           ubuntu@ubuntu:~/CSPIT/CES
Output
           ubuntu@ubuntu:~/CSPIT/CE$ sort file6.txt -o file6.txt
           ubuntu@ubuntu:~/CSPIT/CE$ sort file7.txt -o file7.txt
           ubuntu@ubuntu:~/CSPIT/CE$ comm -12 file6.txt file7.txt
           ubuntu@ubuntu:~/CSPIT/CE$ comm -23 file6.txt file7.txt
           -edavid raj prem josh raju shyam juhi rohan ram shyam
           ubuntu@ubuntu:~/CSPIT/CE$ comm -13 file6.txt file7.txt
           -edavid raj prem josh raju shyam rajesh ranjan diya deepkia
           ubuntu@ubuntu:~/CSPIT/CE$ cat file6.txt file7.txt>file8.txt
           ubuntu@ubuntu:~/CSPIT/CE$ sort -u file8.txt -o file8.txt
           ubuntu@ubuntu:~/CSPIT/CE$ cat file8.txt
           -edavid raj prem josh raju shyam juhi rohan ram shyam
           -edavid raj prem josh raju shyam rajesh ranjan diya deepkia
```

```
Que. 27. Translate the content of "file1.txt":

a. Lower case to upper case
```

```
| b. Remove digits from file | 27. a. tr '[:lower:]' '[:upper:]' < file1.txt > file1_no_digits.txt |
| b. tr -d '[:digit:]' < file1.txt > file1_no_digits.txt |
| cat file1_txt > file1.txt > file1.txt > file1.txt > file1.txt > file1.txt |
| cat file1_no_digits.txt |
| cat file1_no_digits.txt |
| cat file1_txt > file1.txt > file1.txt > file1_no_digits.txt |
| cat fi
```

Que.	28. Apply head and tail command to see the content of "file8.txt" with
	different arguments.
Command	28. head -n 5 file8.txt
	tail -n 5 file8.txt
Output	<pre>ubuntu@ubuntu:~/CSPIT/CE\$ head -n 5 file8.txt -edavid raj prem josh raju ubuntu@ubuntu:~/CSPIT/CE\$ tail -n 5 file8.txt shyam rajesh ranjan diya deepkia ubuntu@ubuntu:~/CSPIT/CE\$</pre>

Que.	29. Differentiate between less and more command and check why less is faster
	than more command.
	30. Create a file "file9.txt" having content:
	Linux is great os. Linux is open source. Linux is free os.
	You can learn operating system with linux.
	Unix or linux which one you choose.
	liNux is easy to learn. Linux is a multiuser os. Learn linux. Linux is a powerful.
	31. Find the lines which contains "linux".
Comma	29. less file8.txt
nd	more file8.txt
	30. cat > file9.txt
	Linux is great os. Linux is open source. Linux is free os.

You can learn operating system with linux. Unix or linux which one you choose. liNux is easy to learn. Linux is a multiuser os. Learn linux. Linux is a powerful. 31. grep -i 'linux' file9.txt Output ubuntu@ubuntu:~/CSPIT/CE\$ cat file9.txt Linux is great os.Linux is open source. Linux is free os. You can learn operating system with linux. Unix or linux which one you choose. liNux is easy to learn.Linux is multiuser os.Learn linux.Linux is a ubuntu@ubuntu:~/CSPIT/CE\$ grep -i "linux" file9.txt Linux is great os.Linux is open source. Linux is free os. You can learn operating system with linux. Unix or tinux which one you choose. liNux is easy to learn.Linux is multiuser os.Learn linux.Linux is a ubuntu@ubuntu:~/CSPIT/CE\$

Que.	32. Count the number of lines that matches the "linux"
	33. Show the line number of file with the line matched
	34. Find the lines which start with "linux"
	38. Check the file type of lab manual and other files created.
	39. Apply history command and redirect your output to "ID No_date.txt"
Comman	32. grep -i 'linux' file9.txt wc -l
d	33. grep -in 'linux' file9.txt
	34. grep -i '^linux' file9.txt
	38. file file9.txt
	File view
	39. history > 22DCE006_\$(date +%Y%m%d).txt
Output	<pre>ubuntu@ubuntu:~/CSPIT/CE\$ grep -i "linux" file9.txt wc -l 4</pre>
	ubuntu@ubuntu:~/CSPIT/CE\$ grep -in "linux" file9.txt
	1:Linux is great os. Linux is open source. Linux is free os. 2:You can learn operating system with linux.
	3:Unix or Linux which you choose.
	4:liNux is easy to learn. Linux is a multiuser os. Learn linux. Linux is a powe ful.
	ubuntu@ubuntu:~/CSPIT/CE\$ grep -i "^linux" file9.txt
	Linux is great os. Linux is open source. Linux is free os. Linux is a powerf
	l.

Que.	35. Find the lines which ends with "os".
	36. Display the file name that contains "linux".
Comma	35. grep -i 'os\$' file9.txt
nd	36. grep -il 'linux' file9.txt

```
Output

ubuntu@ubuntu:~/CSPIT/CE$
ubuntu@ubuntu:~/CSPIT/CE$ grep -i "os$" file9.txt
ubuntu@ubuntu:~/CSPIT/CE$ grep -il "linux" file9.txt
file9.txt
ubuntu@ubuntu:~/CSPIT/CE$
```

```
37. Download lab manual from department course website.
   Que.
              37. wget <URL>
Command
 Output
               ubuntu@ubuntu:~$ wget https://drive.google.com/file/d/14ru3XOtNv_dhyWQjeB5061p02
               wFESKP6/view
               --2024-07-11 09:23:58-- https://drive.google.com/file/d/14ru3X0tNv_dhyWQjeB5061
               p02wFESKP6/view
               Resolving drive.google.com (drive.google.com)... 142.250.183.78, 2404:6800:4009:
               814::200e
               Connecting to drive.google.com (drive.google.com)|142.250.183.78|:443... connect
               ed.
              HTTP request sent, awaiting response... 200 OK
               Length: unspecified [text/html]
               Saving to: 'view'
               view
                                                          ] 90.59K 315KB/s in 0.3s
               2024-07-11 09:24:00 (315 KB/s) - 'view' saved [92764]
```

Exercise - 1.1 (Advanced)

Try the following command sequence.

Que.	1. Change back into your home directory.
	2. Make subdirectories called work and play
	3. Delete the subdirectory called work.
	4. Copy the file /etc/passwd into your home directory.
	5. Move it into the subdirectory play
	6. What is the difference between listing the contents of directory play with
	ls -l and ls -L?
	7. Create a file called hello.txt that contains the words "hello world". Can you
	use "cp " using "terminal" as the source file to achieve the same effect?
Command	1. cd ~
	2. mkdir work play
	3. rmdir work
	4. cp /etc/passwd ~
	5. mv ~/passwd ~/play/
	6. ls -l (Lists files with detailed information including permissions, number
	of links, owner, group, size, and timestamp.)
	Ls -L {follows symbolic links (shows the file or directory the link points
	(to)}
	7. cat > hello.txt
	Hello world
	or
	echo "hello world" cp /dev/stdin hello.txt

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Output

```
ubuntu@ubuntu:~/CSPIT/CE$ cd ~
ubuntu@ubuntu:~$ mkdir work play
ubuntu@ubuntu:~$ rmdir work
ubuntu@ubuntu:~$ cp /etc/passwd ~
ubuntu@ubuntu:~$ mv ~/passwd ~/play/
ubuntu@ubuntu:~$ ls -l
total 0
drwxrwxr-x 3 ubuntu ubuntu 60 Jul 7 04:16 CSPIT
drwxr-xr-x 2 ubuntu ubuntu 60 Jul 7 03:39 Desktop
drwxr-xr-x 2 ubuntu ubuntu 40 Jul 7 03:40 Documents
drwxr-xr-x 2 ubuntu ubuntu 40 Jul 7 03:40 Downloads
drwxr-xr-x 2 ubuntu ubuntu 40 Jul 7 03:40 Music
drwxr-xr-x 2 ubuntu ubuntu 40 Jul 7 03:40 Pictures
drwxr-xr-x 2 ubuntu ubuntu 40 Jul 7 03:40 Pictures
drwxr-xr-x 2 ubuntu ubuntu 40 Jul 7 03:40 Public
drwxr-xr-x 2 ubuntu ubuntu 40 Jul 7 03:40 Templates
drwxr-xr-x 2 ubuntu ubuntu 40 Jul 7 03:40 Videos
drwxr-xr-x 2 ubuntu ubuntu 40 Jul 7 03:40 Videos
drwxr-xr-x 2 ubuntu ubuntu 40 Jul 7 06:09 snap
ubuntu@ubuntu:~$ ls -L
CSPIT Documents Music Public Videos snap
Desktop Downloads Pictures Templates play
ubuntu@ubuntu:~$ cat > hello.txt
hello world
```

Que.

- 8. Copy hello.txt to terminal. What happens?
- 9. Imagine you were working on a system and someone accidentally deleted the ls

command (/bin/ls). How could you get a list of the files in the current directory? Try it. (Do not delete ls command, copy it to some other location from bin)

- 10. How would you create and then delete a file called "\$SHELL"? Try it.
- 11. How would you create and then delete a file that begins with the symbol #? Try it
- 12. How would you create and then delete a file that begins with the symbol -? Try it.

Command

- 8. cp hello.txt terminal (As terminal named file in not present, therefore file with name 'terminal' gets created and content of file hello.txt copied to it.)
- 9. echo *
- 10. touch '\$SHELL' rm '\$SHELL'
- 11. touch '#new_file' rm '#new file'
- 12. touch '-file' rm '-file'

Output ubuntu@ubuntu:~\$ cp hello.txt terminal ubuntu@ubuntu:~\$ echo * CSPIT Desktop Documents Downloads Music Pictures Public Templates Videos hello.txt p lay snap terminal ubuntu@ubuntu:~\$ touch '\$SHELL' ubuntu@ubuntu:~\$ rm '\$SHELL' ubuntu@ubuntu:~\$ touch '#new_file' ubuntu@ubuntu:~\$ rm '#new_file' ubuntu@ubuntu:~\$ touch -- '-file' ubuntu@ubuntu:~\$ rm -- '-file'